

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

October 14, 2011

U. S. Army Corps of EngineersWilmington Regulatory Field Office69 Darlington Ave.Wilmington, NC 28402-1890

Attn: Mr. Ronnie Smith

NCDOT Coordinator

Subject: Application for Permit Modifications for Section 404 Individual Permit

and Section 401 Water Quality Certification for the US 421/NC 87 (Sanford Bypass) from west of SR 1400 to west of US 1/15/501 in Lee County, Division 8. Federal Aid Project No. STPNHF-421(2), State Project

No. 8.T540402, WBS Element No. 34431.1.1, TIP No. R-2417AA.

Debit \$570.00 from WBS 34431.1.1

Reference: Section 404 Individual Permit, issued May 28, 2002, USACE Action ID

2002-20899

Section 404 Individual Permit Modification for R-2417C, issued March 25,

2009, USACE Action ID 2002-20899

Section 401 Individual Water Quality Certification, issued April 10, 2002,

NCDENR-DWQ Water Quality Certification Project No. 001432.

Section 401 Individual Water Quality Certification Modification for Section R-2417C, issued January 21, 2009, NCDENR-DWQ Water Quality

Certification Project No. 001432.

Section 404 Individual Permit Modification for R-2417AA, issued March 18,

2010, USACE Action ID 2002-20899

Section 401 Individual Water Quality Certification, issued September 15, 2009. NCDENR_DWQ Water Quality Certification Project No. 001432.

NCDOT has made some modifications to the permit based on some incidents during construction. Below is a description of the changes to three permit sites. Drawings of the changes are attached.

TELEPHONE: 919-707-6000

FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

Site 5 Station 87+90(LT/RT)

The nylon net matting has been removed from the channel. Although the pipe was initially installed properly at the correct invert of 1 foot below stream bed level, subsequent work for grading and stabilization along the bank and in the channel by the subcontractor caused the pipe to become perched. Additional grading work by the subcontractor has also impacted the stream from the permitted areas at both ends of the pipe, out to the right of way limits (both ends). NCDOT has tentatively proposed that a series of log cross veins be installed to restore the proper invert of one foot below bed level by using the logs as grade control devices to raise the stream bed, and then to gradually lower it back to the natural level as the cross veins progress downstream, by lowering each subsequent vein by 8 inches. It is possible that the depth to rock at this location may make this repair impractical. As was discussed during a phone conversation between Art King, Division 8 DEO and Mason Herndon, DWQ, we may need to revisit this site at a future date after we have had a chance to observe the effects of flow through the site. As you are aware this channel has intermittent flow limited primarily to rainfall events

The actions above will cause an additional 50 feet of temporary stream impacts at Site 5 (30 feet upstream, and 20 feet downstream) to cover the areas impacted between the temporarily impacted area denoted in the plans on both ends of the pipe, out to the right of way limits.

Site 6 Station 120+20(LT) and 120+57(LT/RT)

An approved temporary stream crossing plan drawing was included in the construction plans (Sheet EC-2D). This plan is suitable for a crossing that does not require that flow be maintained by simply removing the pipe. This plan was not followed by the contractor at this location. Instead, an earthen dike without a fabric liner was placed in the dewatered stream channel between the diversion device and the upstream end of the newly constructed culvert by the contractor. This area was used as a crossing point to move equipment around the culvert during construction. We acknowledge that the crossing was improperly installed and has impacted the existing stream channel.

The actions above will be an additional 30 feet of temporary stream impacts. The earthen dike will be removed and the channel will be restored to its original contours, re-vegetated, and allowed to stabilize before the stream is turned into the new culvert.

Site 9 Station 178+82(RT)

Approximately 10 feet of the original stream channel was filled with an earthen dike by the contractor as a means to move his equipment around the culvert structure.

The actions above will be an additional 10 feet of temporary stream impacts. The earthen dike will be removed and the channel will be restored to its original contours, re-vegetated, and allowed to stabilize before the stream is turned into the new culvert.

There will be a total of 90 additional feet of temporary stream impacts from this permit modification.

Regulatory Approvals

Application is hereby made for the modification of the Section 404 Permit from USACE and Section 401 Water Quality Certification from DWQ. In compliance with Section 143-215.3D(e) of the NCAC we have provided a method of debiting \$570, as noted in the subject line of this application, as payment for processing the Section 401 Water Quality Certification modification application. We are providing five copies of this application to DWQ, for their use.

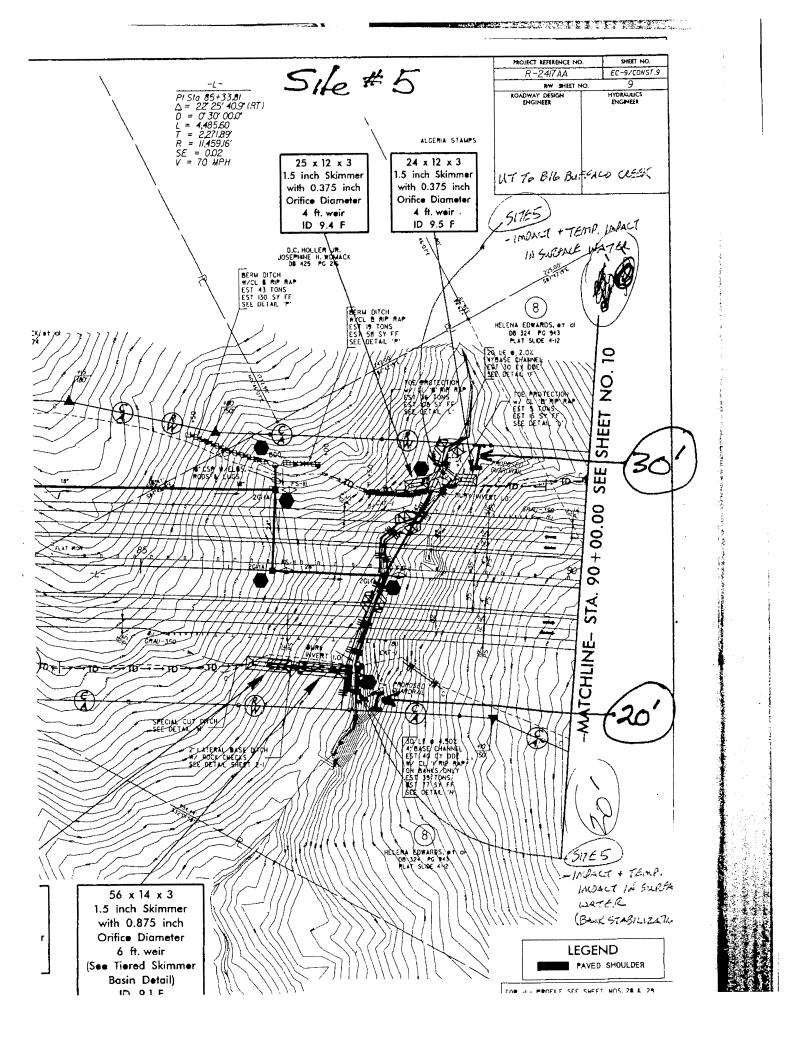
A copy of this permit modification will be posted on the NCDOT website at: http://www.ncdot.org/doh/preconstruct/pe/. If you have any questions or need additional information, please call Rachelle Beauregard at (919) 707-6105 or Art King at (901) 944-2344.

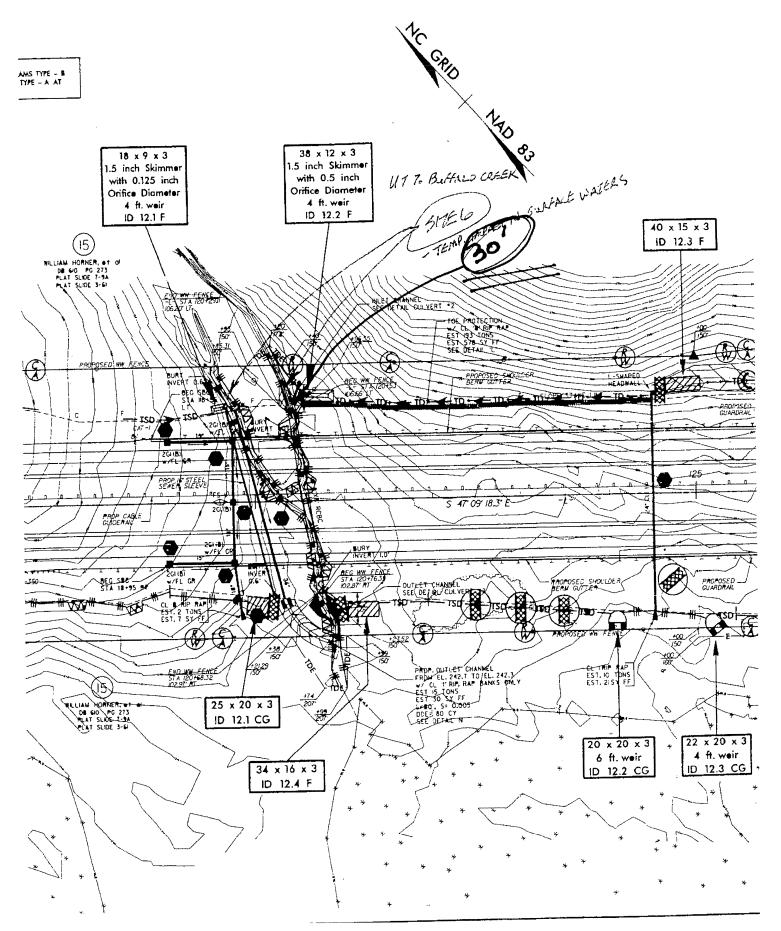
Sincerely

Gregory J. Thorpe, Ph.D.

Environmental Management Director, PDEA

Cc: NCDOT Standard Permit Application Distribution List File R-2417AA



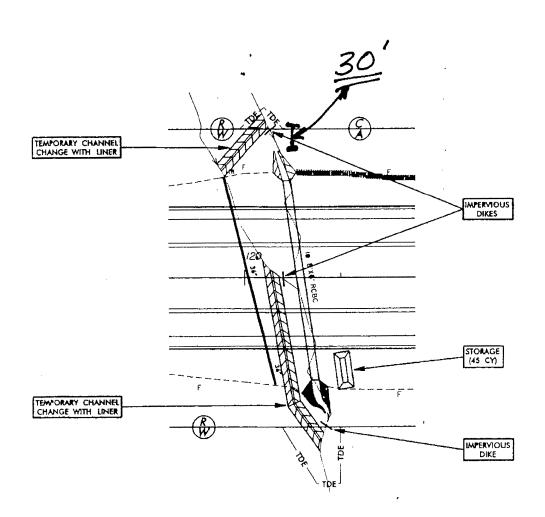


CTION SEQUENCE STA. 120 + 57

VITH LINER (2 FT. BASE, 3 FT. DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.

WING FLOW THROUGH PROPOSED CULVERT.

Site#6



Site #9 ROJECT REFERENCE NO SHEET NO. EC-19/CONSTJ6 R-2417AA UT TO BIG BUSFALO CREEK NW SHEET NO. ROADWAY DESIGN 41TE9 - IMPAUL + TEMP, IMPAUL IN SURFACE WATERS - FILL IN WETLANDS 32 x 16 x 3 1.5 inch Skimmer with 0.5 inch Orifice Diameter 8 ft. weir 52 x 18 x 3 INLET CHANNEL SEE DETAIL CULVERT *4 ID 16.2 F ID 16.3 CG WEXING THOYO ġ Ż / DERM DITCH SHEET SEE 00 50. 09/18/5 180 STA. ATCHLINE-\$450/000 MUN DENS HIC 777/000 3627 NG 064 44 x 16 x 3 ID 16.2 CG JA7ER **LEGEND** PAVED SHOULDER FOR -L- PROFILE, SEE SHEET NO. 32 FOR DITCH DETAILS, SEE SHEET NOS. 2-F & 2-G

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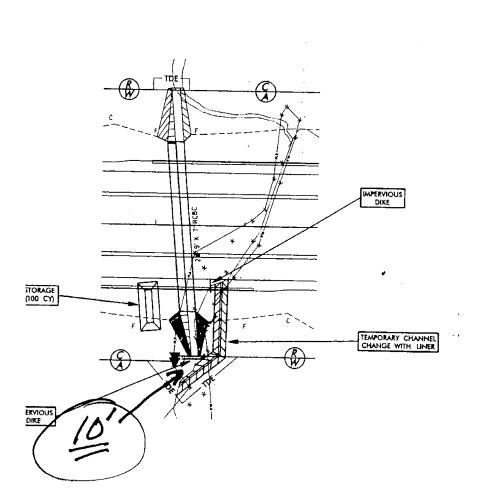
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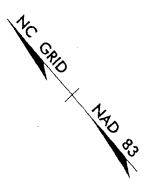
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? FT. BASE, 3 FT. DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.

THROUGH PROPOSED CULVERT.

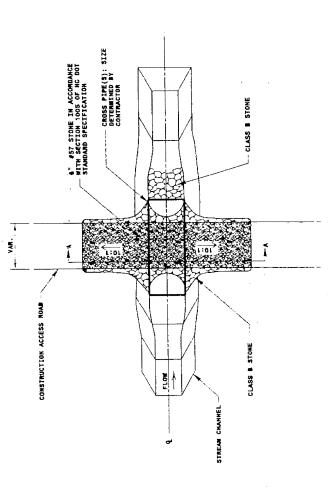
51/e #9



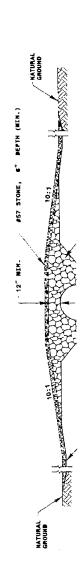


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